

ABSTRACT OF THE DISCLOSURE

A resin molded brushless direct current motor includes a rotor assembly and a stator assembly. The rotor assembly includes a rotor, which has a plurality of permanent magnets for creating a magnetic field, and a rotating shaft. The stator assembly includes a plurality of multi-phase coils, which create an electric field for generating a torque in cooperation with the magnetic field created by the magnets of the rotor. The motor further includes an injection molded housing and a control board disposed on an outer portion of the housing. The control board has a drive circuit for detecting a position of the rotor and sequentially applying conducting signals to the multi-phase coils of the stator assembly. Connection pins, which are connected to multi-phase coils of the stator assembly, project from one end of the housing and mate with connectors formed on the control board. Since the control board is added after the housing has been injection molded, there is no possibility for the control board to be damaged by the high temperature of injection molding process

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